IP Link® Device Interface
Ethernet Communication Sheet

This document provides additional assistance with wiring your Extron IP Link enabled product to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific Extron IP Link enabled product or the controlled device manufacturer supplied documentation.

Device Specifications:

Device Type: Switcher
Manufacturer: Extron
Firmware Version: 1.07
Model(s): ISS 506

Minimum Software and Firmware Requirements:

IP Link Compiler	IP Link Firmware	GC Version
1.40	1.15	3.00

Version History:

Driver Version	Date	Notes
1	6/17/2009	Initial Extron Certified. Tested on ISS 506. Firmware version 1.07

Driver Notes:

Most commands are based on which Input Mode (Program or Preview) and Audio-Video Mode selected. For example, when Program mode is selected, Video Mute ON will mute the Program output.

Execute Modes:
On/Off: will Enable/Disable all front panel functions.
Program: Program lockout
Switch Free: Switching functions only.
Volume Free: Volume control only.

Pass-through function is not recommended with this driver.

Please see Output Resolution and Refresh Rate compatibility chart below for available options.

Control Commands & States:

Audio Gain/Attenuation (Step)*	Up	Down	
Audio Gain/Attenuation (Discrete)*	-18 - 24		
Audio Mute*	Off	On	
Auto Image	Program	Preview	Both
Blue Screen*	Off	On	
Dissolve Duration	0 - 5		
Effect	Wipe Title	Dissolve	PIP
Executive Mode	Off Switch Free	On Volume Free	Program
Freeze*	Off	On	
Input Mode	Program	Preview	
Input Preset	1 - 128		
Input Preset Mode	Recall	Save	
Logo 1*	Off	On	
Logo 2*	Off	On	
Mode	Audio-Video	Video	Audio
Output Resolution**	640x480 1024x768 1280x768 1365x768 1400x1050 576p 1080p	800x600 1024x852 1280x1024 1366x768 1600x1200 720p	852x480 1024x1024 1360x765 1365x1024 480p 1080i
PIP Duration	0 - 5		
PIP Subeffect	Cut	Dissolve	Soft Right

	Soft Left	Soft Up	Soft Down
	Soft Center In	Soft Center Out	Soft Curtain In
	Soft Curtain Out	Soft Square In	Soft Square Out
	Soft Plus In	Soft Plus Out	Hard Right
	Hard Left	Hard Up	Hard Down
	Hard Center In	Hard Center Out	Hard Curtain In
	Hard Curtain Out	Hard Square In	Hard Square Out
	Hard Plus In	Hard Plus Out	
Preview Input	1	2	3
	4	5	6
Preview Mode	Swap	Stay	
Program Input	1	2	3
	4	5	6
Refresh Rate**	50 Hz	60 Hz	72 Hz
	96 Hz	100 Hz	120 Hz
RGB Delay	0 - 5		
Test Pattern	Color Bars	Crosshatch	4x4 Crosshatch
	Grayscale	Ramp	Alternating Pixels
	Crop	Aspect Ratio 1.33	Aspect Ratio 1.78
	Aspect Ratio 1.85	Aspect Ratio 2.35	
Test Pattern Mode	Off	Program	Preview
	Both		
Title Key Threshold	0 - 255		
Transition	Cut	Take	
User Preset Recall	1	2	3
User Preset Save	1	2	3
Video Mute*	Off	On	
Volume (Discrete)	0 - 100		
Volume (Step)	Up	Down	

Wipe Duration	0 - 5		
Wipe Subeffect	Soft Right	Soft Left	Soft Up
	Soft Down	Soft Center In	Soft Center Out
	Soft Curtain In	Soft Curtain Out	Soft Square In
	Soft Square Out	Soft Plus In	Soft Plus Out
	Hard Right	Hard Left	Hard Up
	Hard Down	Hard Center In	Hard Center Out
	Hard Curtain In	Hard Curtain Out	Hard Square In
	Hard Square Out	Hard Plus In	Hard Plus Out

*These commands are based on which Input Mode is selected (Preview or Program)
**Please see Output Resolution and Refresh Rate compatibility chart below for available options.

Status Available:

Audio Gain/Attenuation (Discrete)*	-18 - 24		
Audio Mute*	Off	On	
Blue Screen*	Off	On	
Connection Status	Connected	Disconnected	
Dissolve Duration	0 - 5		
Effect	Wipe	Dissolve	PIP
	Title		
Executive Mode	Off	On	Program
	Switch Free	Volume Free	
Freeze*	Off	On	
Input Mode	Program	Preview	
Input Preset	1 - 128		
Logo 1*	Off	On	
Logo 2*	Off	On	
Mode	Audio-Video	Video	Audio
Output Resolution**	640x480	800x600	852x480
	1024x768	1024x852	1024x1024
	1280x768	1280x1024	1360x765
	1365x768	1366x768	1365x1024
	1400x1050	1600x1200	480p
	576p	720p	1080i
	1080p		
PIP Duration	0 - 5		
PIP Subeffect	Cut	Dissolve	Soft Right
	Soft Left	Soft Up	Soft Down
	Soft Center In	Soft Center Out	Soft Curtain In
	Soft Curtain Out	Soft Square In	Soft Square Out

	Soft Plus In	Soft Plus Out	Hard Right
	Hard Left	Hard Up	Hard Down
	Hard Center In	Hard Center Out	Hard Curtain In
	Hard Curtain Out	Hard Square In	Hard Square Out
	Hard Plus In	Hard Plus Out	
Preview Input	1	2	3
	4	5	6
Preview Mode	Swap	Stay	
Program Input	1	2	3
	4	5	6
Refresh Rate**	50 Hz	60 Hz	72 Hz
	96 Hz	100 Hz	120 Hz
RGB Delay	0 - 5		
Test Pattern	Color Bars	Crosshatch	4x4 Crosshatch
	Grayscale	Ramp	Alternating Pixels
	Crop	Aspect Ratio 1.33	Aspect Ratio 1.78
	Aspect Ratio 1.85	Aspect Ratio 2.35	
Test Pattern Mode	Off	Program	Preview
	Both		
Title Key Threshold	0 - 255		
Video Mute*	Off	On	
Volume (Discrete)	0 - 100		
Wipe Duration	0 - 5		
Wipe Subeffect	Soft Right	Soft Left	Soft Up
	Soft Down	Soft Center In	Soft Center Out
	Soft Curtain In	Soft Curtain Out	Soft Square In
	Soft Square Out	Soft Plus In	Soft Plus Out
	Hard Right	Hard Left	Hard Up
	Hard Down	Hard Center In	Hard Center Out

	Hard Curtain In	Hard Curtain Out	Hard Square In
	Hard Square Out	Hard Plus In	Hard Plus Out

*These commands are based on which Input Mode is selected (Preview or Program)
**Please see Output Resolution and Refresh Rate compatibility chart below for available options.

Output Resolution and Refresh Rate Compatibility Chart:

	50Hz	60Hz	72Hz	96Hz	100Hz	120Hz
640x480	x	x	x	x	x	x
800x600	x	x	x	x	x	x
852x480	x	x	x	x	x	o
1024x768	x	x	x	x	o	o
1024x852	x	x	x	x	o	o
1024x1024	x	x	x	o	o	o
1280x768	x	x	x	x	o	o
1280x1024	x	x	x	o	o	o
1360x765	x	x	x	o	o	o
1365x768	x	x	x	o	o	o
1366x768	x	x	x	o	o	o
1365x1024	x	x	o	o	o	o
1400x1050	x	x	o	o	o	o
1600x1200	x	x	o	o	o	o
480p	o	x	o	o	o	o
576p	x	o	o	o	x	o
720p	x	x	o	o	o	o
1080i	x	x	o	o	o	o
1080p	x	x	o	o	o	o

x=Availabe
o=Not Available

Network communication:

When configuring the Ethernet driver, be sure all device settings match that of the GC configuration. When configuring for a password, Administrator login is required and the password can only have a maximum of 12 characters.

Port Type:	Ethernet
Default User Name:	
Default Password:	
Default Port:	23
Multi-Connection Capabilities:	Yes
Port Changeability:	Yes
Logon Credentials Supported:	Yes

Ethernet Driver Configuration Description:

Please refer to manual for setting and changes to Network Communication parameters such as: User Name, Password, and Port Number. Please look to Chapter 4: SIS Programming and Control for modification. Changes to parameters can also be made through device default web pages in the Configuration Tab under System Settings.

Notes for the Device: